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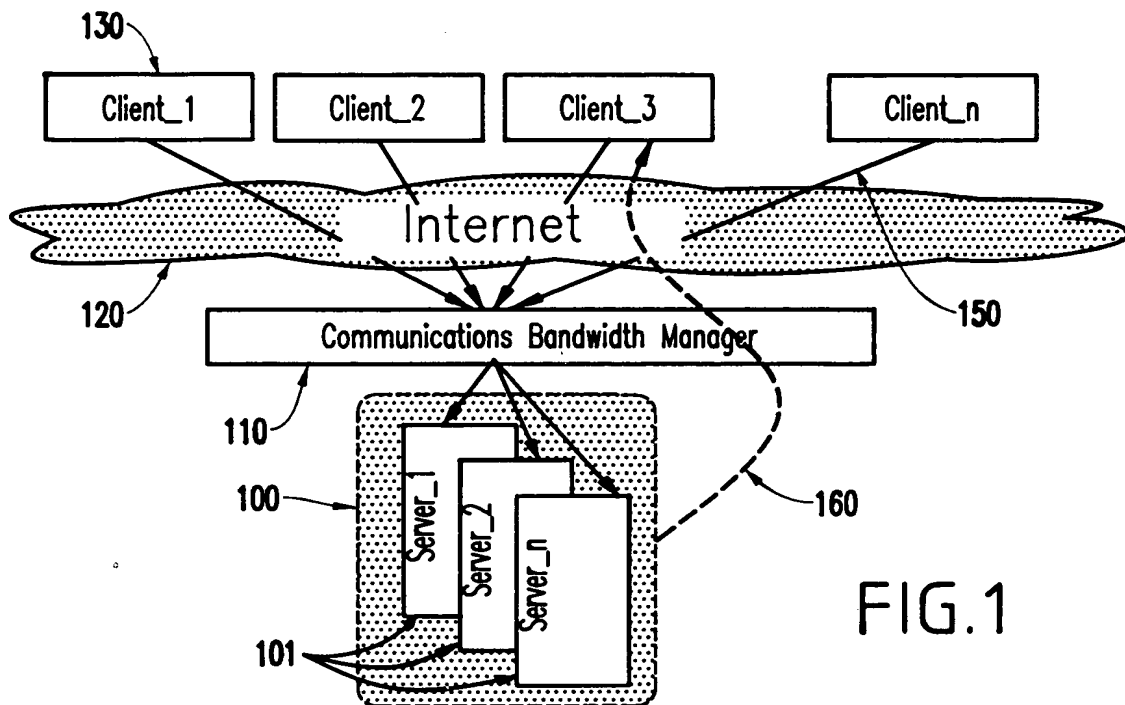


FIG. 1

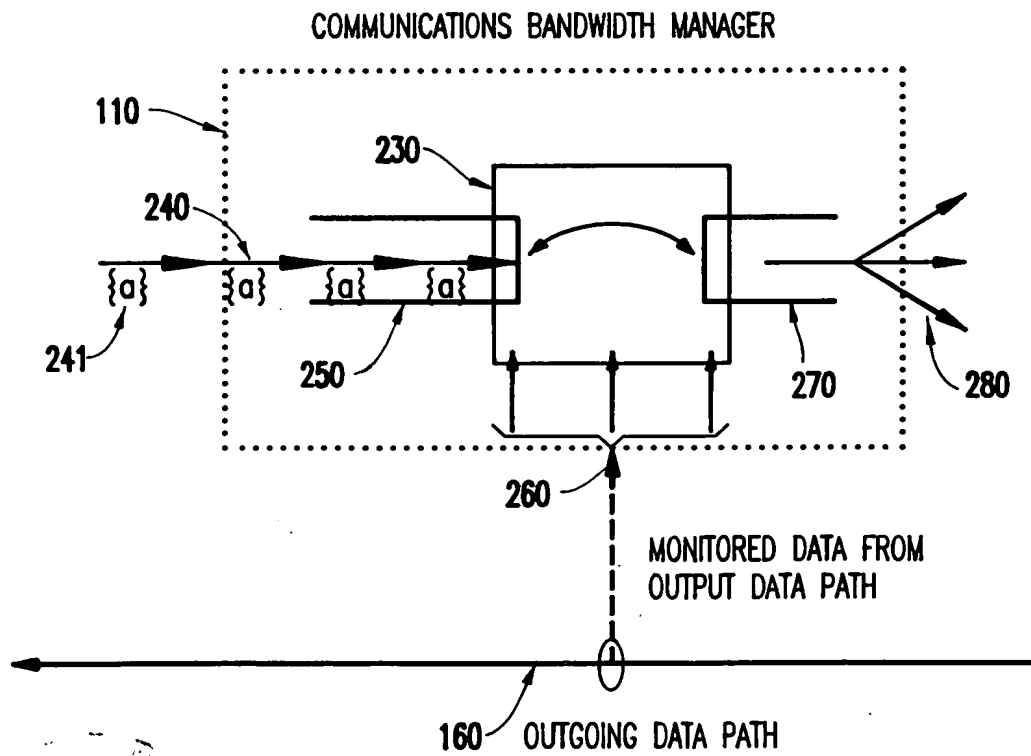


FIG. 2

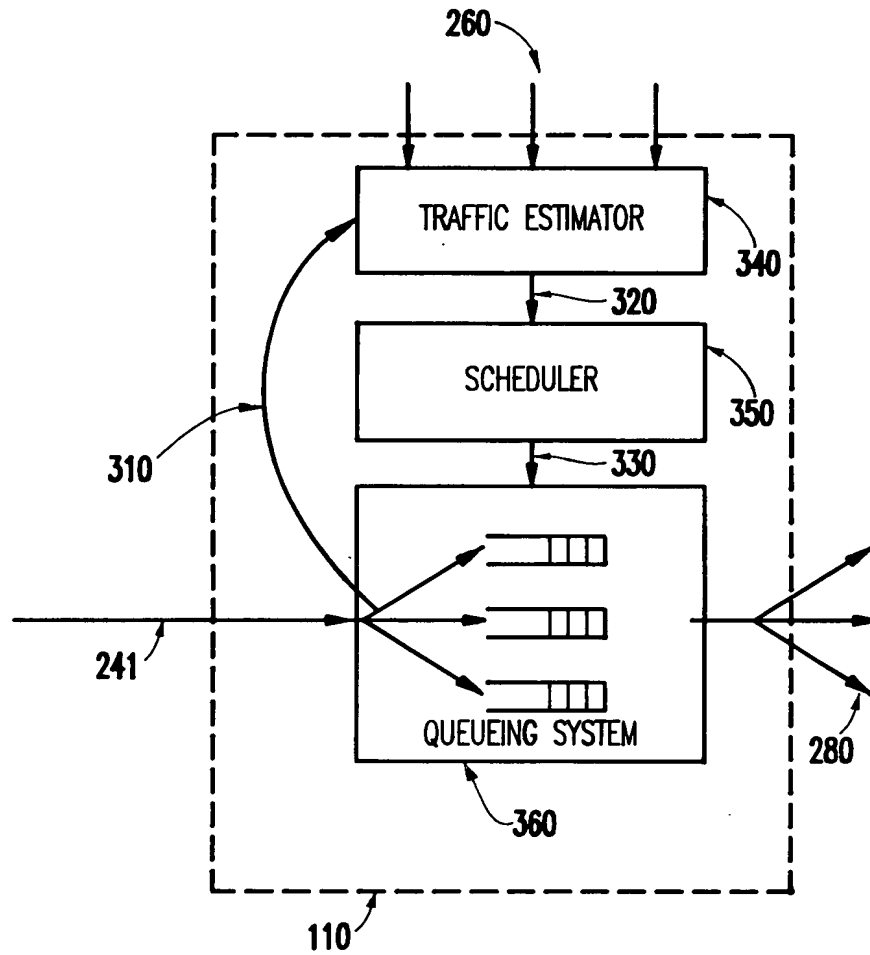


FIG.3

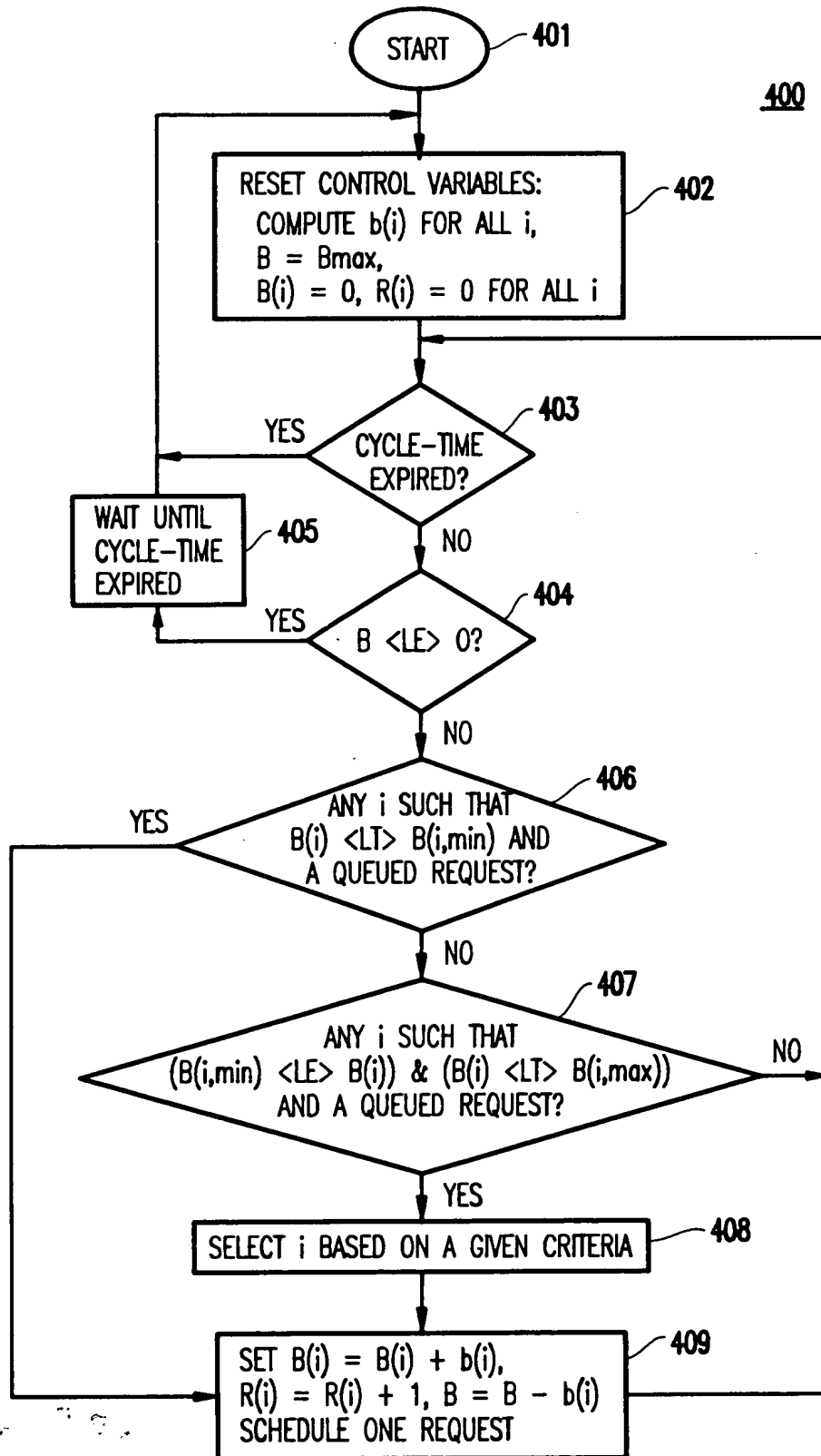


FIG.4 A

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For all i

$$Ra(i) = (1-a)Ra(i) + aR(i),$$

$$Ba(i) = (1-a)Ba(i) + aBm(i),$$

$$b(i) = Ba(i)/Ra(i).$$

where

$Ra(i)$ represents averaged/smoothed number of requests

$Ba(i)$ represents averaged/smoothed bandwidth usage

$Bm(i)$ represents the measured/monitored bandwidth usage

$b(i)$ represents the expected bandwidth usage by one request
all of them in a fixed service cycle time.

FIG.4B